(CONSTRUCTION TYPE CODE X080-2A) ITEM UNIT QUANTITY CODE NO. TREE REMOVAL, ACRES ACRE 0.1 20100500 EARTH EXCAVATION CU YD 1002 20200100 CU YD 80 20200300 EARTH EXCAVATION FOR EROSION CONTROL CHANNEL EXCAVATION CU YD 20300100 136 FURNISHED EXCAVATION CU YD 20400800 1405 ACRE 0.8 25000200 SEEDING, CLASS 2 POUND 25000400 NITROGEN FERTILIZER NUTRIENT 72 POUND 72 25000500 PHOSPHORUS FERTILIZER NUTRIENT 72 POTASSIUM FERTILIZER NUTRIENT POUND 25000600 ACRE MULCH METHOD 2 25100115 0.8 POUND 80 28000250 TEMPORARY EROSION CONTROL SEEDING TEMPORARY DITCH CHECKS 28000300 EACH PERIMETER EROSION BARRIER FOOT 28000400 196 EACH 28000500 INLET AND PIPE PROTECTION SQ YD STONE RIPRAP, CLASS A4 246 28100107 SQ YD 28200100 FILTER FABRIC FOR USE WITH RIPRAP 246 SQ YD 2314 PROCESSING LIME STABILIZED SOIL MIXTURE 12" 31000600 53 35101400 AGGREGATE BASE COURSE, TYPE B TON 1300 40300100 BITUMINOUS MATERIALS (PRIME COAT) GALLON TON 40600300 AGGREGATE (PRIME COAT) TON 391 AGGREGATE SHOULDERS, TYPE B 48101200 EACH 50100100 REMOVAL OF EXISTING STRUCTURES 24.4 50300225 CONCRETE STRUCTURES CU YD 50400505 PRECAST PRESTRESSED CONCRETE DECK BEAMS SQ FT 1663 (27" DEPTH) 2530 REINFORCEMENT BARS, EPOXY COATED POUND 50800205 STEEL RAILING, TYPE WT FOOT 50900450 111 FURNISHING METAL PILE SHELLS 12" FOOT 426 51201000 FOOT 426 DRIVING AND FILLING SHELLS 51202600 51203200 TEST PILE METAL SHELLS EACH NAME PLATES 50 542D0217 PIPE CULVERTS, CLASS D, TYPE 1 12" FOOT 58100200 WATERPROOFING MEMBRANE SYSTEM SQ YD 185 FOOT 58300100 PORTLAND CEMENT MORTAR FAIRING COURSE 499 PIPE DRAINS 24" 60100985 FOOT 63000005 STEEL PLATE BEAM GUARDRAIL, TYPE B FOOT 100 63100167 * TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT) EACH TERMINAL MARKER - DIRECT APPLIED EACH X4066414 * BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, 258 TON MIX "C". N50 X4066614 * BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, TON 730 IL-19.0, N50 17 XXOO4949 INCIDENTAL BITUMINOUS SURFACING, SUPERPAVE TON Z0013825 CONTROLLED LOW STRENGTH MATERIAL CU YD 17 67100100 MOBILIZATION LSum * SEE SPECIAL PROVISIONS

SUMMARY OF QUANTITIES

PAVEMENT DESIGN

STRUCTURAL DESIGN TRAFFIC: YEAR 2022 PV = 1982 SU = 14 MU = 4ROAD/STREET CLASSIFICATION: CLASS III PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE: P = 99.1 S = 0.7 M = 0.2TRAFFIC FACTOR: TF = 0.03 $D_T = 2.40$ (REQUIRED) DT = 4.52 (PROVIDED)

AC GRADE: BINDER = 10 SURFACE = 10 AC TYPE = 2

SUBGRADE SUPPORT RATING: IBR = 3

PAVEMENT STRUCTURE MATERIALS: BITUMINOUS SURFACE COURSE; a¹ = 0.40 BITUMINOUS BINDER COURSE; a² = 0.40 LIME STABILIZED SOIL; a₃ = 0.11

GENERAL NOTES

THE AREA TO BE SEEDED SHALL CONSIST OF ALL DISTURBED EARTH SURFACES WITHIN THE RIGHT-OF-WAY AND EASEMENTS AS DIRECTED BY THE ENGINEER.

SEEDING DATES FOR ALL CLASSES OF SEEDING WILL BE AS LISTED BELOW: CLASS OF SEEDING TERMINATION DATES BEGINNING DATES 1, 1A, 1B, 2, 2A, 3 (IN SPRING) APRIL 1 MAY 15 OCTOBER 15

LAYOUT OF EROSION CONTROL ITEMS MAY BE VARIED IN THE FIELD TO SUIT GROUND CONDITIONS AS DIRECTED BY THE ENGINEER.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL UNDERGROUND UTILITY FACILITIES. HE SHALL ALSO OBTAIN FROM THE RESPEC-TIVE UTILITY COMPANIES DETAILED INFORMATION RELATIVE TO THE LOCATION OF THEIR FACILITIES AND THE WORKING SCHEDULES OF THE UTILITY COMPANIES FOR THEIR MARK-ING OF THE EXACT LOCATION.

AUGUST 15

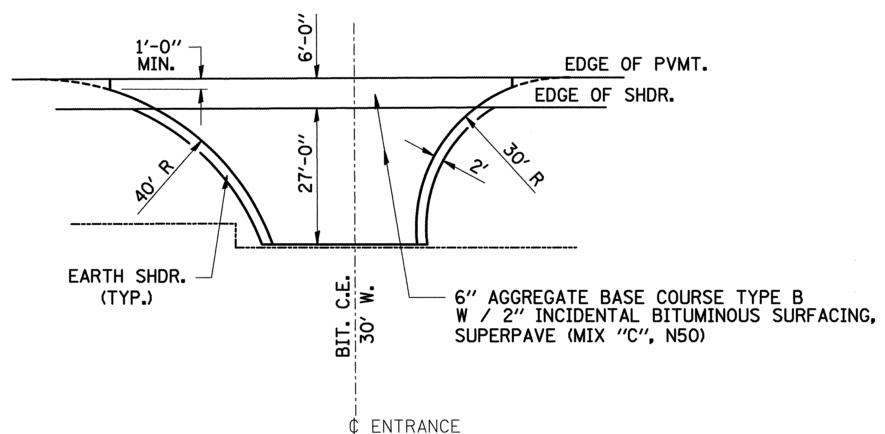
WHERE SECTION OR SUB-SECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL MONUMENTS UNTIL AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF HAVING AN AUTHORIZED SURVEYOR RE-ESTABLISH ANY SECTION OR SUB-SECTION MONUMENTS DESTROYED BY HIS OPERATIONS.

REMOVAL OF EXISTING AGGREGATE MATERIAL AND BITUMINOUS MATERIAL SHALL BE INCLUDED IN EARTH EXCAVATION.

APPLICATION RATES

1, 1A, 1B, 2, 2A, 3 (IN FALL)

GRANULAR MATERIALS	2.05	TONS/CU. YD.
BITUMINOUS MATERIALS-PRIME COAT	0.50	GALS./S.Y.
BITUMINOUS MATERIALS-FOG COAT	0.03	GALS./S.Y.
AGGREGATE PRIME COAT	2.4	LBS./S.Y.
BITUMINOUS CONCRETE	112	LBS./S.Y./INCH
NITROGEN FERTILIZER NUTRIENT	90	LBS./ACRE
PHOSPHORUS FERTILIZER NUTRIENT	90	LBS./ACRE
POTASSIUM FERTILIZER NUTRIENT	90	LBS./ACRE
MULCH METHOD 2	2	TONS/ACRE



COMMERCIAL ENTRANCE DETAIL

BITUMINOUS MIXTURE REQUIREMENTS

LOCATION	CH 39	CH 39
MIX USE	BINDER	SURFACE
AC/PG	PG 64-22	PG 64-22
RAP %	25	15
DESIGN VOIDS	4.0 @ N=50	4.0 @ N=50
MIXTURE COMPOSITION (GRAD, MIXTURE)	IL-19 . 0	IL-9 . 5
FRICTION	N/A	MIX C

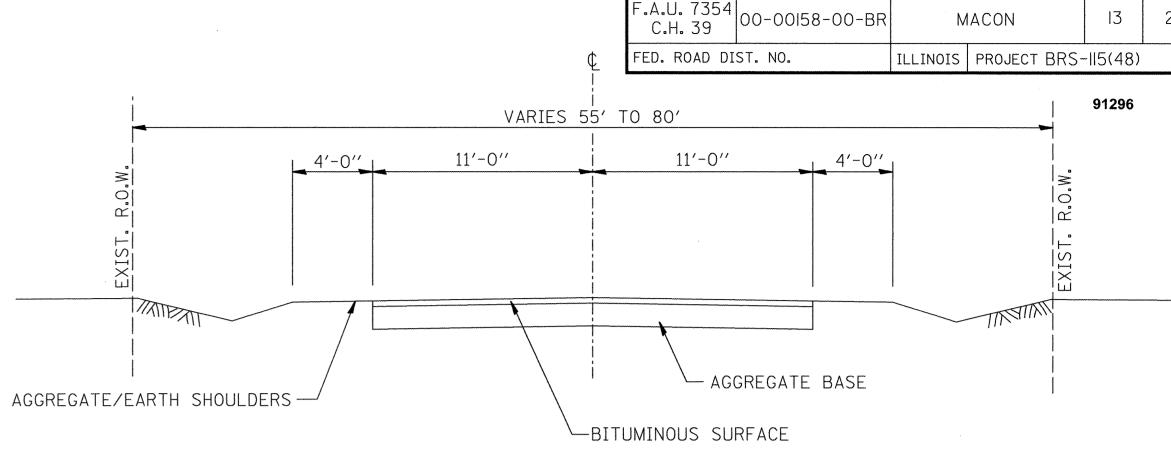
COLLAR SCHEDULE

LOCATION	′′D′′	CONCRETE COLLAR
±15+62.0, 24′ RT.	*24′′	0.54 CU. YDS.
TOTAL		0.54 CU. YDS.

*TO BE FIELD VERIFIED

ROADWAY QUANTITY SCHEDULE

LOCATION	PR LIM STAB SOIL M 12 (SQ YD)	BIT MATLS PR CT (GAL)	AGG PR CT (TON)	BIT BINDER CSE 6" (TON)	BIT SURFACE CSE 2" (TON)	AGG SHLDS TY B (TON)	INCIDENTAL BIT SURF. CSE 2" (TON)	AGG BASE CSE 6" (TON)
M.L. STA. 11+45.11 TO STA. 14+68.86	875	462	2	276	89	138		
M.L. STA. 15+26.04 TO STA. 20+58.41	1439	760	3	454	147	253		
C.E. AT STA. 12+73.66		78				·	17	53
TOTALS	2314	1300	5	730	236	391	17	53

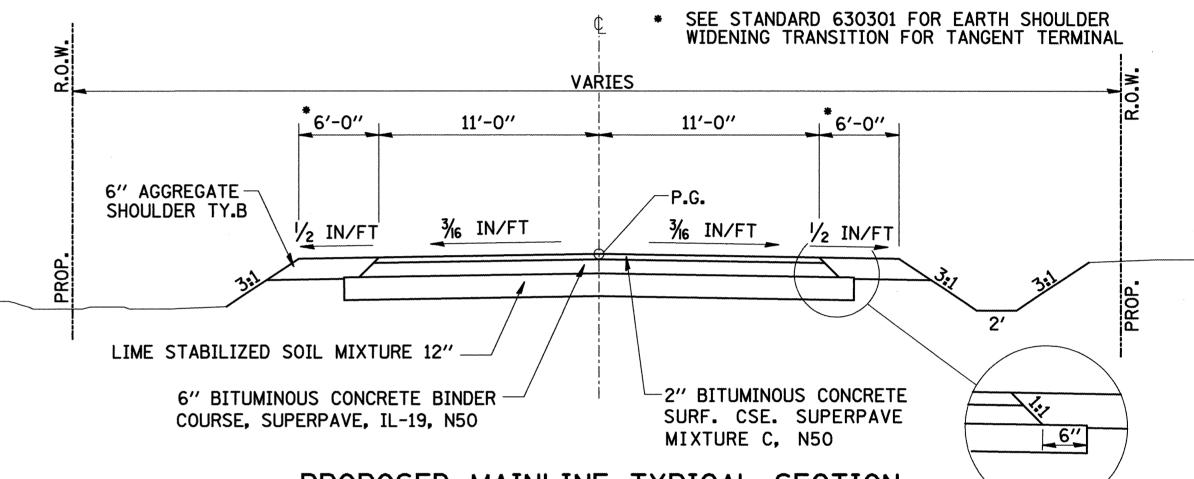


ROUTE NO.

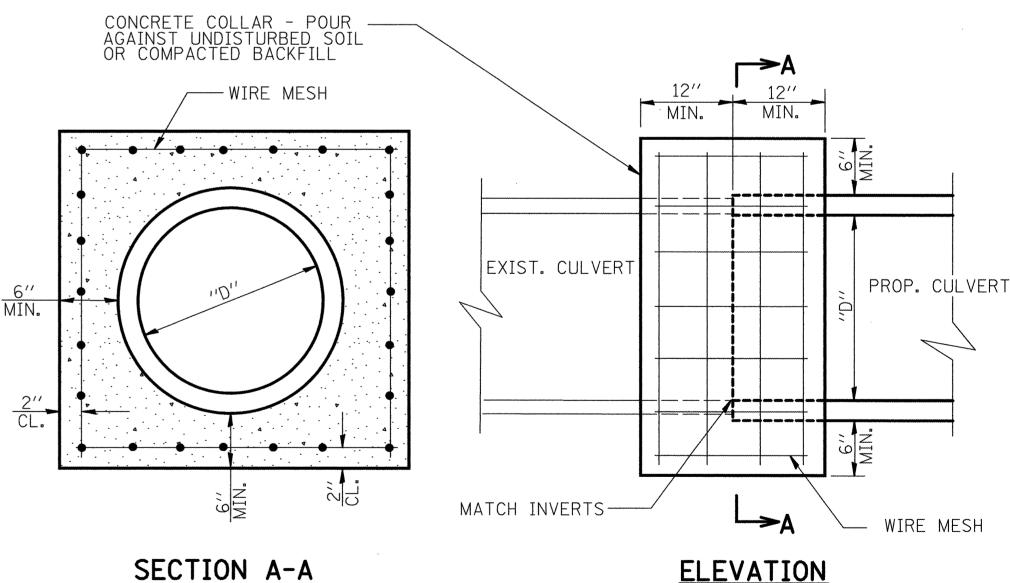
SECTION

COUNTY

EXISTING MAINLINE TYPICAL SECTION



PROPOSED MAINLINE TYPICAL SECTION



PIPE COLLAR DETAIL

(COST OF PIPE COLLARS INCLUDED IN PIPE DRAINS)

GENERAL DATA				
Date	Designed DCS	C.H. 39 OVER SPRING CREEK		
Revisions	pesigned DC2	SECTION 01-00158-00-BR		
	Drawn BKN	MACON COUNTY		
	Checked DCS	STA. I4+97.45 PROP. STR. NO. 058-3359		
	Approved KWB			
Prepared b	WVP Job No. 2100001426.01			